## Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

## Listing of Claims

## 1-2. (Canceled)

- 3. (Currently Amended) The treating solution for surface treatment of metal according to claim 18 claim 1, further containing 1000 to 50000 ppm of a nitrate group.
- 4. (Currently Amended) The treating solution for surface-treatment of metal—according to claim 18elaim—1, further containing at least one oxygen acid and/or salt of oxygen acid selected from the group consisting of HClO<sub>3</sub>, HBrO<sub>3</sub>, HNO<sub>2</sub>, HNO<sub>3</sub>, HMnO<sub>4</sub>, HVO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>WO<sub>4</sub>, H<sub>2</sub>MoO<sub>4</sub> and salts thereof.
- 5. (Currently Amended) The treating solution for surface treatment of metal—according to claim 18 claim 1, further containing at least one polymer compound selected from the group consisting of water-soluble water soluble polymer compounds and water-dispersible water dispersible polymer compounds.
- 6. (Currently Amended) The treating solution for surface treatment of metal according to claim 18 claim 1, further containing at least one surface-active surface active agent selected from the group consisting of nonionic surface-active surface-active agents, anionic surface-active surface active agents and cationic surface-active surface active agents.
- 7. (Currently Amended) A method for surface treatment of a metal comprising, contacting independently each metal

material or simultaneously two or more collectively at least one metal material materials selected from the group consisting of a ferriferous material, a zinciferous material, an aluminiferous material and a magnesiferous material with the treating solution for surface treatment according to claim 18claim 1.

- 8. (Currently Amended) The method for surface treatment of metal—according to claim 7, comprising, further contacting the at least one metal material or the two or more metal materials with an acidic aqueous solution of a compound containing at least one element selected from the group consisting of cobalt, nickel, tin, copper, titanium and zirconium, after contacteontacting with the treating solution for surface treatment, with or without washing by water.
- 9. (Currently Amended) The method for surface treatment of metal—according to claim 7, comprising, further contacting the at least one metal material or the two or more metal materials with a treating solution containing at least one polymer compound selected from water-solublewater soluble polymer compounds and water-dispersible water dispersible polymer compounds, after contact contacting with the treating solution—for surface treatment, with or without washing by water.
- 10. (Currently Amended) A method for surface treatment of <u>a</u> metal comprising, <u>electrolyticallyelectrolytic</u> treating in the treating solution for surface treatment <u>claim 18 elaim</u> 1, wherein <u>independently each metal material or simultaneously two or more the at least one metal <u>material materials selected</u> from the group consisting of ferriferous material, zinciferous material, aluminiferous material and magnesiferous material are—is\_a cathode.</u>

- 11. (Currently Amended) The method for surface treatment of metal according to claim 10, comprising, further contacting the at least one the metal material or the two or more metal materials with an acidic aqueous solution of a compound containing at least one element selected from the group consisting of cobalt, nickel, tin, copper, titanium and zirconium, after electrolytic treatment treating in the treating solution for surface treatment, with or without washing by water.
- 12. (Currently Amended) The method for surface treatment of metal according to claim 10, comprising, further contacting the at least onethe metal material or the two or more metal materials with a treating solution containing at least one polymer compound selected from water-solublewater soluble polymer compounds and water-dispersiblewater dispersible polymer compounds, after electrolytic treatment treating in the treating solution—for surface treatment, with or without washing by water.
- 13. (Currently Amended) A method for surface treatment of metal comprising, contacting independently each metal material or simultaneously two or more collectively at least one metal material materials selected from the group consisting of a ferriferous material, a zinciferous material, an aluminiferous material and a magnesiferous material, whose surface is not degreased and cleaned with the treating solution for surface treatment according to claim 6.
- 14. (Currently Amended) A metal material having a <u>surface-treated</u> film containing at least one metal element selected from the group consisting of titanium and zirconium formed on a surface of <u>an</u> iron metal material by the method for <u>surface treatment</u>-according to claim 7, wherein an adhesion amount of the <u>surface-treatedsurface treated</u> film, calculated as the metal element, is 30mg/m² or more.

- 15. (Currently Amended) A metal material having a <u>surface-treated surface treated</u> film containing at least one metal element selected from the group consisting of titanium and zirconium formed on a surface of <u>a zinc metal material by the method for surface treatment according to claim 7, wherein an adhesion amount of the <u>surface-treated surface treated</u> film, calculated as the metal element, is 20mg/m² or more.</u>
- 16. (Currently Amended) A metal material having a surface-treated surface treated film containing at least one metal element selected from the group consisting of titanium and zirconium formed on a surface of an aluminum metal material by the method for surface treatment according to claim 7, wherein an adhesion amount of the surface treated surface treated film, calculated as the metal element, is  $10 \, \text{mg/m}^2$  or more.
- 17. (Currently Amended) A metal material having a surface-treated surface treated film containing at least one metal element selected from the group consisting of titanium and zirconium formed on a surface of a magnesium metal material by the method for surface-treatment according to claim 7, wherein an adhesion amount of the surface-treated film, calculated as the metal element, is 10mg/m² or more.
- 18. (New) An aqueous surface-treating solution capable of treating independently or collectively at least one metal material selected from the group consisting of a ferriferous material, a zinciferous material, an aluminiferous material and a magnesiferous material, the treating solution containing 5 to 5000 ppm of a zirconium compound, calculated as metal zirconium, 0.1 to 100 ppm of free fluorine ion, at least one compound selected from the group consisting of 5 to 100 ppm of a calcium compound, calculated as metal calcium, 10 to 5000 ppm of a magnesium compound, calculated as metal magnesium,

'Serial No. 10/537 329 - Page 6

and 10 to 5000 ppm of a strontium compound, calculated as metal strontium, and having a pH of 2 to 6.